

matrix			sol	rhs	action	<i>scaling</i>
2	2	13	1	17		
4	5	32	1	41		
-2	-3	-16	1	-21		

matrix	sol	rhs	action	<i>scaling</i>
2 2 13	1	17	take this row	1/2
4 5 32	1	41		
-2 -3 -16	1	-21		

matrix			sol	rhs	action	<i>scaling</i>
2	2	13	1	17	take this row	1/2
↓	↓	↓				
4	5	32	1	41	minus $4 \times (1/2)$	
-2	-3	-16	1	-21		

matrix	sol	rhs	action	<i>scaling</i>
2 2 13	1	17	take this row	1/2
0 1 6	1	7		-2
-2 -3 -16	1	-21		

matrix	sol	rhs	action	<i>scaling</i>
2 2 13	1	17	take this row	1/2
⇓ ⇓ ⇓				
0 1 6	1	7		-2
-2 -3 -16	1	-21	minus $(-2) \times (1/2)$	

matrix	sol	rhs	action	<i>scaling</i>
2 2 13	1	17	first column done	1/2
0 1 6	1	7		-2
0 -1 -3	1	-4		+1

matrix			sol	rhs	action	<i>scaling</i>
2	2	13	1	17	take this row	1
0	1	6	1	7		
0	-1	-3	1	-4		

matrix			sol	rhs	action	<i>scaling</i>
2	2	13	1	17	minus 2×1	1
↑	↑	↑				
0	1	6	1	7	take this row	
0	-1	-3	1	-4		

matrix			sol	rhs	action	<i>scaling</i>
2	0	1	1	3	take this row	-2
0	1	6	1	7		1
0	-1	-3	1	-4		

matrix			sol	rhs	action	<i>scaling</i>
2	0	1	1	3		-2
0	1	6	1	7	take this row	1
↓	↓	↓				
0	-1	-3	1	-4	minus $(-1) \times 1$	

matrix			sol	rhs	action	<i>scaling</i>
2	0	1	1	3	second column done	-2
0	1	6	1	7		1
0	0	3	1	3		+1

matrix			sol	rhs	action	<i>scaling</i>
2	0	1	1	3	take this row	1/3
0	1	6	1	7		
0	0	3	1	3		

matrix			sol	rhs	action	scaling
2	0	1	1	3	minus $1 \times 1/3$	
0	1	6	1	7		
$\uparrow\uparrow$	$\uparrow\uparrow$	$\uparrow\uparrow$				
0	0	3	1	3	take this row	1/3

matrix			sol	rhs	action	<i>scaling</i>
2	0	0	1	2	take this row	$-1/3$
0	1	6	1	7		
0	0	3	1	3		$1/3$

matrix			sol	rhs	action	<i>scaling</i>
2	0	0	1	2		$-1/3$
0	1	6	1	7	minus $6 \times 1/3$	
↑	↑	↑				
0	0	3	1	3	take this row	$1/3$

matrix			sol	rhs	action	<i>scaling</i>
2	0	0	1	2		$-1/3$
0	1	0	1	1		$-2/3$
0	0	3	1	3		$1/3$
					third column done	

matrix			sol	rhs	action	<i>scaling</i>
2	0	0	1	2		
0	1	0	1	1		
0	0	3	1	3		